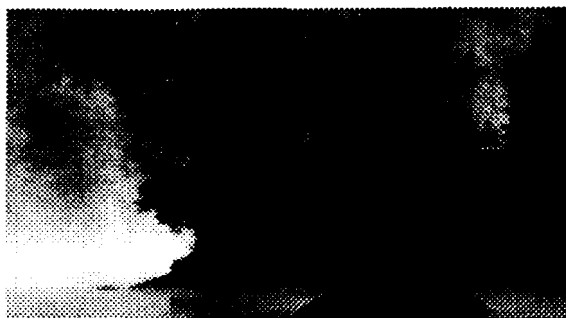


ATTACHMENT A

Attachment A

Adventure GPS Products (888) GPS4FUN



Product Comparisons

Entry Level GPS Receivers (\$100-\$200)

If you are getting your first GPS receiver, you probably want one that gives you all the basic GPS features that you need, at a **low, affordable price**. So, you look for a receiver that is **easy to learn**, provides **100-200 waypoints**, and several types of **navigation** screens to tell you where you are and where you want to go. All of the units below, except the Magellan Pioneer, have these features and much more. In fact, they now have many features today that, years ago, were either unheard of, or only available in much more expensive models. The Magellan Pioneer is a very, very basic unit, with very few screens and features to learn, so it is perfect for a user who can only handle minimum instruction. (However, most users will want the added features of the other models). All, except the Pioneer, are computer data/ DGPS capable. None of these receivers have external antenna capability, but that is usually not needed for 12 channel GPS receivers. None of these units have a background map installed, with roads and waterways, but they can be hooked up to a laptop for use with GPS compatible mapping programs.

When you are shopping for GPS receivers on the open market, and you find one of these GPS receivers available at a much lower, clearance price, please check the **PART NUMBER** before you buy. There are several versions of the GPS 2000XL and Eagle Explorer, and they may not include all of the features listed here. Many vendors are selling out their old inventories, so check the features listed. Older GPS receivers at clearance prices, may indeed be a great deal if you're just starting out--- just be sure you know what you are getting.

The products that we list here are products that we sell. We do not show information on discontinued models, or products by other manufacturers. The features that are **BOLD** are the ones most people find most important.

Manufacturer Model Part Number	<u>Magellan</u> GPS 2000XL 00-62018	<u>Magellan</u> Pioneer 00-63000	<u>Garmin</u> GPS 12 01-00146	<u>Eagle</u> Explorer 0094-372
Retail Price:	\$ 160.00	\$ 99.99	\$ 150.00	\$ 180.00
Best Uses	All general uses (hiking, boating, car)	Low-cost positioning Very basic for novices	All general uses (hiking, boating, car)	All general uses (hiking, boating, car)
Good in Tree Cover	Yes	No	Yes	Yes
Easy to learn	Yes	Very simple	Yes	-

Can be hooked to laptop in car	Yes	No	Yes	Yes
Physical Properties:				
Weight (with Batteries)	10 oz.	7 oz.	9.5 oz.	12 oz.
Dimensions (in. WxHxD)	2.3 x 6.6 x 1.3	2 x 6 x 1.3	2.1 x 5.8 x 1.2	6.74 x 3.4 x 1.6
Screen Size (in. WxH)	1.4 x 1.8	1.4 x 2	1.5 x 2.2	1.4 x 2.1
Screen Res. (pixels)	65 x 102		64 x 100	65 x 100
Display Backlighting	Yes	Yes	Yes	Yes
Antenna Type	Patch	Patch	Patch	Patch
External antenna available.	No	No	No	No
Dynamics			6 g	
Operating Temperature	-10C to 60C 14 F to 140 F	-10C to 60 C 14 F to 140 F	-15 C to 70 C 5 F to 158 F	-10C to 60 C 14 F to 140 F
Water resistance	Waterproof	Waterproof	Waterproof	Waterproof
Electronics:				
# of Parallel Channels	12	2	12	12
Max # of satellites	12	12	12	12
Acquisition Time (cold start)	~ 3-5 minutes	5-10 minutes	~ 5 minutes	~ 5 minutes
Cold	60 seconds	65-75 seconds	45 seconds	
Warm	35 seconds	35 seconds	15 seconds	
Position Update Rate	1 per second	1 per second	1 per second	1 per second
External Power Range	9-16 VDC	9-16 VDC	5-8 VDC	5-16 VDC
No. & Size of Batteries	4 AA	2 AA	4 AA	4 AA
Expected Battery Life (continuous/ saver)	Up to 24 hours/ NA	Up to 24 hours/ NA	Up to 12 hours / NA	Up to 10 hours/ NA
Internal Back-up Battery	no	no	Yes	Yes
Features:				
Easy to Initialize	Yes	Yes	Yes	-
# of Screens available	6	3	6	5 + 15 Windows
# of Waypoints	200	100	500	250
Size of Waypoint Names	6 characters	4 characters	6 characters	8 characters
Proximity Waypoints			Nearest 9	
# of Savable Routes/ Legs	5 / 20 legs	1 / 10 legs	20 reversible / 30 legs	20 reversible / 12 legs
Retained plot trail	21 fixes	N/A	1024 trackpoints	2000 points

# of Graphic Icons	N/A	N/A	16	15
Accuracy *- no Selective Availability	49 ft RMS (position) * 0.1 knot RMS (velocity)	49 ft RMS (position)* 0.12 mph RMS (velocity)	49 ft RMS (position) * 0.1 knot RMS (velocity)	49 ft RMS (position)* mph RMS (velocity)
* Subject to accuracy degradation to 100m 2DRMS under the U.S. DOD imposed Selective Availability Program (SA).				
Maximum Speed	951 mph	951 mph		High
Alarms	No	No	No	Yes
Simulator Mode	Yes	No	Yes	Yes
Position Averaging Feature	Yes	No	No	No
Average Speed			Yes	
Trip Odometer	Yes		Yes	
Second Position Screen	Yes			
Other Features	Sunrise/Sunset times Distance between pts. Landmark projection MOB (Man overboard)	N/A	Sunrise/Sunset times Distance between pts. MOB (Man overboard)	Distance between pts. Timers
Data Interface:				
Differential Capable	Yes	No	Yes, RTCM-104 v 2.0	Yes
NMEA Interface version	0183 v 1.5, 2.1	No	0180, 0182, 0183 v 1.5, 2.0	0183
Waypoint I/O Software available	Yes	No	Yes	Yes
Datums:				
Number Preprogrammed	73	2	107	190
User Definable	1	No	Yes	No
Coordinate Types:				
Latitude/Longitude	Yes	Yes	Yes	Yes
UTM	Yes	Yes	Yes	Yes
MGRS	No	No	No	Yes
British	Yes	No	Yes	Yes
Other	4	No	6 (incl. Maidenhead)	5
User Definable	1	No	Yes	No

Accessories:				
Included with purchase:				
Wrist Strap	Yes	Yes	Yes	Yes
User Manuals	Yes	Yes	Yes	Yes
Cig. Lighter Adapter	No	No	No	Yes
Carrying Case	No	No	No	No
Batteries	No	No	No	Yes
Other	NA	NA	NA	NA
Optional:				
Carrying case	Yes	Yes	Yes	Yes
Mounting bracket	Yes	Yes	Yes	Yes
Cig. Lighter Adapter	Yes	No	Yes	Yes
Data or power/data cable	Yes	Yes	Yes	Yes
PC Kit: cable with I/O software	Yes	No	Yes	Yes
Rechargeable battery kit	No	No	No	Yes
AC adapter	Yes	No	Yes	Yes
Uses Map cartridges	No	No	No	No
Differential Beacon Receiver	Yes	No	Yes	Yes
Video / Cheat Sheet	Yes / Yes	Yes / No	Yes / Yes	Yes / No

Return to: [Main Comparison Page](#) * [HOME](#)

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Subject to human error....Consult manufacturer specification pages for complete accuracy

ATTACHMENT B

Validation of Default Costs
(Default Value)

Attachment B

Residential NID w/o Protector {\$10}		Residential NID Protector Block/Line {\$4}		Business NID (6 Pair) w/o Protector {\$25}		Business NID Protector Block/Line {\$4}		Bury Service Wire (Drop)/ft. Rural {\$.60}		Bury Service Wire (Drop)/ft. Suburban {\$.75}	
\$6.85	v	\$3.05	y	\$23.44	v	\$3.05	y	\$0.55	n	\$0.63	n
\$9.38	y	\$3.06	x	\$28.65	w	\$3.06	x	\$0.60	c	\$0.70	i
\$9.80	w	\$3.07	v			\$3.07	v	\$0.60	d	\$0.72	f
\$11.90	x	\$4.80	w			\$4.80	w	\$0.60	e	\$0.75	c
								\$0.60	m	\$0.75	d
								\$0.70	l	\$0.75	e
								\$0.74	f	\$0.75	k
								\$0.75	k	\$0.90	j
								\$0.75	p	\$1.00	m
								\$0.75	q	\$1.15	p
								\$0.90	i	\$1.15	q
								\$0.90	j	\$1.25	b
								\$0.95	b	\$1.50	o
								\$1.00	o	\$1.50	i
								\$1.30	a	\$1.90	g
								\$1.75	g	\$2.10	a

<u>w/1 protector</u>	
\$9.92	v
\$12.43	y
\$14.96	x
<u>w/3 protectors</u>	
\$24.20	w

Note: Price used is Quote for SNI-2100 w/protector(s) minus "Add a Line" kit(s).

<u>w/o protectors</u>	
\$23.44	v
<u>w/6 protectors</u>	
\$57.45	w

Note: Price used is Quote for SNI-4600

Note: letters represent vendor code

Validation of Default Costs
(Default Value)

Block Terminal Material Cost (Aerial Strand Mounted) (\$60)		Block Terminal Material Cost Buried Pedestal (\$90)		Drop Wire Material Cost/ft. Aerial 2-Pair (\$0.095)		Drop Wire Material Cost/ft. Buried 3-Pair Filled (\$0.140)		Pole Investment Material 40' Class 4 (\$201)		Pole Investment Labor Rural 40' Class 4 (\$216)		Pole Investment Labor Suburban 40' Class 4 (\$216)	
\$58.55	y	\$39.61	ww	\$0.0947	y	\$0.140	tt	\$150.00	tt	\$150.00	o	\$205.00	n
\$72.15	z	\$54.20	ww	\$0.1130	v	\$0.197	ww	\$189.68	yy	\$155.00	n	\$216.00	h
		\$87.00	x					\$201.27	yy	\$216.00	h	\$350.00	o
		\$90.00	y					\$201.17	xx	\$294.00	f	\$392.00	f
		\$93.00	x					\$217.49	yy	\$300.00	p	\$350.00	p
								\$219.81	yy	\$300.00	q	\$350.00	q
								\$248.04	yy				
								\$240.00	ss				
								\$262.68	yy				
								\$392.00	x				

Also see FCC*
data containing
94 entries of
values from
\$134 to \$402.

Also see FCC*
data containing
94 entries of
values from
\$170 to \$902.

Also see FCC*
data containing
94 entries of
values from
\$170 to \$1,161.

*http://www.fcc.gov/Bureaus/Common_Carrier/Comments/da971433_data_request/datareq.html

Note: letters represent vendor code

Validation of Default Costs
(Default Value)

Duct Material Cost/ft. (\$0.60)	Rock Saw/ Trenching Ratio (3.5)	Manhole Material (\$2,340)	Manhole Excavation & Backfill Rural (\$2,800)	Manhole Excavation & Backfill Suburban (\$3,200- \$3,500)	Manhole Excavation & Backfill Metro (\$3,500- \$5,000)
\$0.515 t	1.3 g	\$1,350 x	\$850 o	\$1,250 o	\$1,700 o
\$0.585 u	1.8 n	\$1,700 o	\$1,500 n	\$1,830 f	\$2,650 g
\$0.648 s	1.9 l	\$2,340 uu	\$1,600 p	\$2,050 g	\$3,140 f
	2.1 o	\$3,100 n	\$1,600 q	\$2,100 n	\$3,200 l
	2.5 q	\$3,389 v v	\$1,614 f	\$2,400 p	\$3,500 n
	2.8 p	\$3,500 k	\$1,750 g	\$2,400 q	\$4,000 p
	3.6 i	\$4,720 p	\$2,800 l	\$2,800 l	\$4,000 q
	4.6 k	\$4,720 q	\$3,500 i	\$4,200 i	\$5,000 k
			\$4,000 k	\$4,500 k	\$8,500 i

Normal Trenching 24"	1 Quote @ \$1865 less uu frame & cover +\$125 delivery.
\$2.40 l	Frame+Cover from
\$3.00 p	"Nat'l Constr Estimator" @
\$3.18 n	\$350.00
\$3.25 q	Total=\$2,340
\$3.50 k	
\$4.38 g	
\$5.00 i	
\$7.00 o	

Frost Wheel or Rock Saw Rural & Suburban 24"	1 Bid @ \$3150 v v plus \$239 delivery Total=\$3,389
\$4.50 l	
\$5.75 g	
\$5.75 n	
\$8.00 q	
\$8.50 p	
\$15.00 o	
\$16.00 k	
\$18.00 i	

Note: letters represent vendor code

Validation of Default Costs
(Default Value)

Normal Trenching in Dirt with Backfill Rural/ft. 24" depth {\$2.81-\$2.97}	Normal Trenching in Dirt with Backfill Rural/ft. 36" depth {\$2.81-\$2.97}**	Normal Trenching in Dirt with Backfill Suburban/ft. 24" depth {\$2.81-\$3.88}**	Normal Trenching in Dirt with Backfill Suburban/ft. 36" depth {\$2.81-\$3.88}**	Trenching in Pavement with Restoral Metro/ft. 24" depth {\$13.58 & \$48.85}	Trenching in Pavement with Restoral Metro/ft. 36" depth {\$13.58 & \$48.85}
\$2.00 o	\$1.50 b	\$2.40 l	\$2.00 b	\$7.50 k	\$7.40 f
\$2.00 p	\$1.87 f	\$3.00 p	\$2.46 f	\$8.85 g	\$8.50 k
\$2.15 n	\$2.10 a	\$3.25 n	\$2.50 l	\$9.60 g*	\$8.60 c
\$2.25 q	\$2.50 l	\$3.25 q	\$3.10 j	\$12.00 p	\$8.80 d
\$2.40 l	\$2.75 n	\$3.45 g	\$3.50 a	\$13.00 q	\$8.80 e
\$2.50 p*	\$2.75 j	\$3.50 k	\$3.60 n	\$13.10 j	\$9.10 g
\$2.60 n*	\$3.00 o	\$3.50 p*	\$3.60 g	\$13.50 n	\$9.80 g*
\$2.75 q*	\$3.00 p	\$3.75 n*	\$3.90 h	\$14.00 p*	\$9.87 h
\$3.00 o*	\$3.15 n*	\$3.75 q*	\$4.00 p	\$15.00 o	\$10.00 b
\$3.30 g	\$3.20 c	\$4.85 g*	\$4.10 n*	\$15.00 q*	\$10.50 a
\$3.50 k	\$3.25 q	\$5.00 i	\$4.25 c	\$16.20 n*	\$14.00 p
\$3.90 g*	\$3.30 d	\$9.00 o	\$4.25 q	\$19.00 o*	\$14.25 n
\$5.00 i	\$3.30 e	\$11.00 o*	\$4.50 d	\$42.00 l	\$15.00 q
	\$3.40 g		\$4.50 e	\$60.00 i	\$16.00 p*
	\$3.50 o*		\$4.50 k		\$17.00 o
	\$3.50 p*		\$4.50 p*		\$17.00 q*
	\$3.75 q*		\$4.75 q*		\$17.50 n*
	\$4.00 g*		\$4.90 g*		\$22.00 o*
	\$4.50 k		\$6.00 i		\$42.00 l
	\$4.93 h		\$11.00 o		\$63.00 i
	\$6.00 i		\$15.00 o*		

*12" wide trench price as well as 6" trench price was submitted

**Equivalent Default Values Excluding Plowing, Boring, and Pushing Pipe

Note: letters represent vendor code

Validation of Default Costs
(Default Value)

Plow Cable Rural/ft. 24" depth {\$.80}		Plow Cable Rural/ft. 36" depth {\$.80}		Plow Cable Suburban/ft. 24" depth {\$1.20}		Plow Cable Suburban/ft. 36" depth {\$1.20}	
Normal		Normal		Normal		Normal	
\$0.40	p	\$0.50	p	\$0.85	k	\$0.90	j
\$0.50	q	\$0.60	q	\$1.15	g	\$0.95	k
\$0.75	l	\$0.80	l	\$1.15	n	\$1.05	b
\$0.80	k	\$0.90	a	\$1.20	l	\$1.20	g
\$0.85	n	\$0.90	j	\$1.50	p	\$1.25	c
\$1.10	g	\$0.90	k	\$1.60	q	\$1.30	a
\$1.50	i	\$0.92	f	\$2.00	o	\$1.30	l
\$1.50	o	\$0.95	b	\$3.50	i	\$1.35	d
		\$0.95	n			\$1.35	e
		\$1.15	g			\$1.57	f
		\$1.25	c			\$1.65	n
		\$1.35	d			\$1.90	p
		\$1.35	e			\$2.00	q
		\$1.75	i			\$2.95	o
		\$2.00	o			\$4.00	i
More Difficult		More Difficult		More Difficult		More Difficult	
\$0.75	l	\$0.80	l	\$0.85	k	\$0.95	k
\$0.80	k	\$0.90	k	\$1.20	g	\$1.25	b
\$0.80	p	\$1.00	p	\$1.20	l	\$1.30	l
\$0.90	q	\$1.10	q	\$1.95	n	\$1.40	g
\$1.15	n	\$1.15	b	\$2.75	p	\$1.40	j
\$1.20	g	\$1.20	f	\$2.85	q	\$1.87	f
\$1.50	i	\$1.25	g	\$3.50	i	\$2.35	n
\$2.00	o	\$1.40	j	\$4.00	o	\$2.50	c
		\$1.40	n			\$2.70	d
		\$1.75	i			\$2.70	e
		\$2.00	a			\$2.90	a
		\$2.25	c			\$3.75	p
		\$2.50	d			\$3.85	q
		\$2.50	e			\$4.00	i
		\$2.95	o			\$6.00	o
Ratio		Ratio		Ratio		Ratio	
1.00	i	1.00	i	1.00	i	1.00	i
1.00	k	1.00	k	1.00	k	1.00	k
1.00	l	1.00	l	1.00	l	1.00	l
1.09	g	1.09	g	1.04	g	1.17	g
1.33	o	1.21	b	1.70	n	1.19	b
1.35	n	1.30	f	1.78	q	1.19	f
1.80	q	1.47	n	1.83	p	1.42	n
2.00	p	1.48	o	2.00	o	1.56	j
		1.56	j			1.93	q
		1.80	c			1.97	p
		1.83	q			2.00	c
		1.85	d			2.00	d
		1.85	e			2.00	e
		2.00	p			2.03	o
		2.22	a			2.23	a

Note: letters represent vendor code

CERTIFICATE OF SERVICE

I, Cassandra de Souza, do hereby certify that on this 12th day of June, 1998, I caused a copy of the foregoing Reply Comments of AT&T Corp. and MCI Telecommunications Corporation on Designated Input and Universal Service Benchmark Issues to be served upon each of the parties listed on the attached Service List by U.S. First Class mail, postage prepaid.

/s/ Cassandra de Souza
Cassandra de Souza

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